AMENDMENTS TO THE CLAIMS

This listing of claims replaces all prior listings of claims in the application:

1. (Currently amended) A method of surveillance for the presence of a chemical, biological, or radiological agent, which method comprises:

assaying a sample derived from <u>street debris</u> materials collected from a sample domain for the presence of a chemical, biological, or radiological agent,

wherein the sample domain is a route undertaken by a street sweeper machine and comprises at least one collection point from which the materials are collected in a pre-existing operation, otherwise unrelated to surveillance.

- 2. (Canceled)
- 3. (Previously presented) The method of surveillance of claim 1, wherein the materials are collected in a predetermined, traceable route.
- 4. (Previously presented) The method of surveillance of claim 1, further comprising the steps of (a) introducing *Tetrahymena pyriformis* to the sample, and (b) assaying for *Bacillus anthracis*.
- 5. (Original) The method of surveillance of claim 1, wherein the sample is assayed for *Bacillus anthracis* using real time polymerase chain reaction (RTm-PCR).
- 6. (Previously presented) The method of surveillance of claim 1, wherein the sample is derived from a street sweeper machine.
- 7. (Currently amended) The method of surveillance of claim [[6]] 1, comprising obtaining a sample from a collection bin, and assaying the sample.
- 8. (Original) The method of surveillance of claim 7, comprising placing an assaying device in communication with the collection bin.

- 9. (Original) The method of surveillance of claim 7, wherein the sample is derived from rinsing collection bins that collect refuse from the street sweeper machine.
- 10. (Canceled)
- 11. (Original) The method of surveillance of claim 1, wherein the materials are collected in a predetermined pattern, and brought to a central location.
- 12. (Original) The method of surveillance of claim 1, wherein assaying for the presence of a chemical, biological, or radiological agent comprises comparing a level of chemical, biological or radiological agent to a normal level of a chemical, biological or radiological agent.
- 13. (Original) The method of surveillance of claim 12, wherein the normal level of a chemical, biological or radiological agent comprises background noise.
- 14. (Original) The method of surveillance of claim 12, wherein the normal level of a chemical, biological or radiological agent is ascertained from a second sample domain.
- 15. (Currently amended) The method of surveillance of claim 1, wherein assaying for the presence of a chemical, biological, or radiological agent comprises detecting an increase or a decrease in a level of chemical, biological or radiological agent relative to an earlier assay.

16-19. (Canceled)

- 20. (Original) The method of surveillance of claim 1, wherein the sample is assayed for *Bacillus thuringiensis*.
- 21. (Canceled)
- 22. (Original) The method of surveillance of claim 1, wherein collection integrity is preserved.

- 23. (Previously presented) The method of surveillance of claim 1, comprising obtaining and assaying a sample from within a collection bin.
- 24. (Original) The method of claim 23, comprising placing an assaying device in communication with the collection bin.
- 25. (Canceled)
- 26. (Currently amended) A method of surveillance for the presence of a chemical, biological, or radiological agent, which method comprises:
 - (a) isolating a sample from a sample domain, which sample comprises debris or fluids that result is collected from rinsing an instrumentality used in the collection of street debris materials from the sample domain by a street sweeper machine, and wherein the sample domain comprises a collection of materials on a regular, systematic basis through a predetermined, traceable route, the predetermined traceable rout converging on a centralized location;
 - (b) assaying the sample for the presence of a chemical, biological, or radiological agent using PCR technology, radiation detector technology, spectrometry technology, or radioimmunoassay technology;
 - (c) determining a result based on the assay; and
 - (d) reporting the result.
- 27. (Original) The method of surveillance of claim 26, wherein collection integrity is preserved.
- 28. (Withdrawn) A system for surveillance for chemical, biological, or radiological agents, which method comprises:

a sampling means for obtaining samples from collection points from which the materials are collected in a pre-existing operation, unrelated to surveillance; and

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- an assaying means, for determining the presence of a chemical, biological, or radiological agent in the sample from the sample domain.
- 29. (Previously presented) A method for determining the presence of *Bacillus anthracis* within a sample comprising introducing *Tetrahymena pyriformis* to the sample, and assaying the sample for the presence of *Bacillus anthracis*.
- 30. (Canceled).
- 31. (Canceled).
- 32. (Previously presented) The method of claim 29, further comprising the step of introducing the sample to a membrane at a temperature effective to kill vegetative bacteria.
- 33. (Previously presented) The method of claim 32, wherein the temperature effective to kill the vegetative bacteria is about 70 °C to about 80 °C.
- 34. (Previously presented) The method of claim 29, wherein the sample is introduced to a first membrane having a pore size larger than the *Bacillus anthracis*, and a second membrane having a pore size smaller than the *Bacillus anthracis*.
- 35. (Previously presented) The method of claim 34, wherein the first membrane and/or the second membrane is at a temperature effective to kill vegetative bacteria.
- 36. (Previously presented) The method of claim 35, wherein the temperature effective to kill the vegetative bacteria is about 70 °C to about 80 °C.
- 37. (New) A method of detecting the presence of a chemical, biological, or radiological agent which comprises:

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- (a) obtaining at least one sample from a collection of street debris that has been exposed to the environment and is collected from a street sweeper machine that follows a pre-defined, traceable route unrelated to surveillance and continuously collects the street debris from an open environment along the pre-defined route;
- (b) assaying the sample for the presence of a chemical, biological, or radiological agent;
- (c) determining a result based on the assay;
- (c) correlating the result with a known normal level of the chemical, biological, or radiological agent; and
- (d) reporting the result.
- 38. (New) The method of claim 37 further comprising the step of correlating the assay result of a sample from a first predefined route with a second assay result of a sample from the first predetermined route to localize an area contaminated with the chemical, biological, or radiological agent.
- 39. (New) The method of claim 37 further comprising the step of correlating the assay result of a sample from a first predefined route with the assay result of a sample from a second predetermined route to localize an area contaminated with the chemical, biological, or radiological agent.
- 40. (New) The method of claim 37 wherein the chemical, biological, or radiological agent is a member selected from the group consisting of radioactive agents, microbial organisms, viruses, and hazardous chemical agents.
- 41. (New) The method of claim 39 wherein the microbial agent is *Bacillus anthracis*.

- 42. (New) The method of claim 37 wherein the sample derived from a collection of street debris is obtained from a bin wherein the collection of street debris from at least one street sweeper has been pooled.
- 43. (New) The method of claim 41 wherein the sample derived from a collection of street debris is obtained from a bin wherein the collection of street debris from more than one street sweepers has been pooled.
- 44. (New) The method of claim 37 further comprising determining the presence of a *Bacillus* spore within a sample comprising introducing *Tetrahymena pyriformis* to the sample, and assaying the sample for the presence of a *Bacillus* spore.
- 45. (New) The method of claim 44, wherein the Bacillus spore is Bacillus anthracis.
- 46. (New) The method of claim 44, wherein the *Bacillus* spore is *Bacillus thuringiensis*.